

METHOD AND SYSTEM TO INSTRUMENT
VIRTUAL FUNCTION CALLS

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ABSTRACT OF THE DISCLOSURE

A method and system for analyzing a virtual function. In one embodiment, the present invention determines whether a virtual table exists for a virtual function, and determines a call type for the virtual function. In the present embodiment, provided the virtual table is located, the present invention replaces an existing address for the virtual function with a new address such that the new address points to instrumentation code. In this embodiment, upon a call to the virtual function, the present invention loads the new address from the virtual table such that execution is directed to the instrumentation code. The present embodiment continues execution and executes the instrumentation code such that control is delivered to the instrumentor.

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